

Serial No. 09/841,380Docket No. 56433US002

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5,049,404; a change in the distance between the electrostatic spray head or heads and the substrate; or alteration of the electrostatic field as described in copending U.S. Patent Application Serial No. 09/841,381, filed April 24, 2001 entitled VARIABLE ELECTROSTATIC SPRAY COATING APPARATUS AND METHOD, incorporated herein by reference.

In the Claims

Make amendments to claims 1, 33, 38 – 41, 44, 50 – 52 and 54 – 57 as shown below in clean form and as shown in marked form in the attached document entitled "Marked copy of November 26, 2002 amendments to the claims in USSN 09/841,380 (56433US002)":

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1. (Amended) A method for forming a liquid coating on a substrate comprising electrostatically spraying drops of the liquid onto a liquid-wetted target region of a conductive transfer surface, and transferring a portion of the thus-applied liquid from the transfer surface to the substrate to form a wet coating.

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33. (Amended) An apparatus comprising a conductive transfer surface that when wet with a liquid coating composition can transfer a portion of the coating to a substrate, and an electrostatic spray head that can apply drops of the coating composition onto a liquid-wetted target region of the conductive transfer surface.

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38. (Amended) An apparatus according to claim 33 wherein the electrostatic spray head, or a plurality of electrostatic spray heads ganged together in an array, produces a line of charged droplets.

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39. (Amended) An apparatus according to claim 33 comprising a plurality of such electrostatic spray heads that applies one or more coating compositions to the conductive transfer surface in one or more lanes.

wherein said electrostatic spray head comprises

40. (Amended) An apparatus according to claim 39 wherein the plurality of spray heads applies a plurality of coating compositions to one lane.

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41. (Amended) An apparatus according to claim 39 wherein the plurality of spray heads applies coating compositions to a plurality of lanes.

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44. (Amended) An apparatus according to claim 33 further comprising two or more pick-and-place devices that can periodically contact and re-contact the wet coating at different positions on the substrate, wherein the periods of the devices are selected so that the uniformity of the coating on the substrate is improved compared to a coating made without such devices.

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50. (Amended) An apparatus according to claim 46 further comprising the substrate, wherein the substrate comprises a rotating endless belt or moving web, and the rolls rotate with the belt or web.

51. (Amended) An apparatus according to claim 33 further comprising the substrate, wherein the substrate comprises an insulative substrate.

52. (Amended) An apparatus according to claim 51 further comprising the substrate, wherein the substrate comprises plastic.

54. (Amended) An apparatus according to claim 33 further comprising the substrate, wherein the substrate comprises a porous substrate.

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55. (Amended) An apparatus according to claim 54 further comprising the substrate, wherein the substrate is coated without substantial penetration of the coating through the substrate.

56. (Amended) An apparatus according to claim 33 further comprising the substrate, wherein the substrate comprises a woven or nonwoven web.

57. (Amended) An apparatus according to claim 33 further comprising the substrate, wherein the substrate comprises an electronic film, component or electronic component precursor.